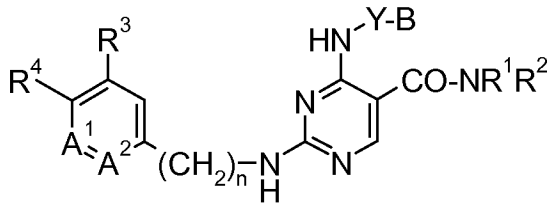
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A compound~~STAT-6 activation inhibitor which comprises a diaminopyrimidinecarboxamide derivative~~ represented by a formula (I) or a salt thereof ~~and a pharmaceutically acceptable carrier~~,



(I)

wherein~~(symbols in the formula have the following meanings:~~

A^1: CR^5 or N,

R^5: -H, -lower alkyl, -O-lower alkyl or –halogen,

A^2: CR^6 or N,

R^6: -H or –halogen,

R^3: -R^0, –lower alkyl substituted with halogen, -halogen,

-OR^0, -S-lower alkyl, -CO-lower alkyl, -CO_2-lower alkyl,

-lower alkylene-OH, -hetero ring, -O-hetero ring, -N(R^0)-hetero ring, -lower alkylene-hetero ring, -O-lower alkylene-hetero ring, -S-lower alkylene-hetero ring, -SO-lower alkylene-hetero

ring, -SO_2-lower alkylene-hetero ring, -$N(R^0)$-lower alkylene-hetero ring, -lower alkylene-CO-hetero ring, -lower alkylene-$N(R^0)_2$, -SO_2-$N(R^0)$-lower alkyl or –lower alkylene-$N(R^0)$-CO_2-lower alkylene-phenyl,

R^0: the same or different from one another, and each is H or a lower alkyl,

n: 0 or 2,

R^4: (i) when n = 2, -R^0, –lower alkyl substituted with halogen, -OR^0, -$N(R^0)$-CHO, -$N(R^0)$-CO-lower alkyl or –$N(R^0)$-SO_2-lower alkyl,

(ii) when n = 0, -H, –lower alkyl substituted with halogen, -OH, -NH-CHO, -$CON(R^0)_2$, -lower alkylene substituted with halogen-OH, -lower alkylene-NH_2, -lower alkylene-$NHCONH_2$, -lower alkylene-CO_2H, -lower alkylene-CO_2-lower alkyl, -lower alkylene-CN, or –CH(lower alkylene-OH)$_2$, or a group represented by a formula -X^a-R^{4a},

X^a: single bond, -O-, -CO-, -S-, -SO_2-, -$N(R^0)$-, -$N(R^0)$CO-, -$N(R^0)SO_2$-, -lower alkylene-O-, -lower alkylene-$N(R^0)$-, -lower alkylene-$N(R^0)$CO-, -lower alkylene-$N(R^0)SO_2$-, -lower alkylene-$N(R^0)CO_2$-, -$N(CO\text{-}R^0)$-, -$N(SO_2$-lower alkyl)-, -$CON(R^0)$-, -lower alkylene-O-CO-, -lower alkenylene-CO-, -lower alkenylene-$CON(R^0)$-, -lower alkenylene-CO_2-, -O-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-, -$N(R^0)$-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-, -CO-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-, -$CON(R^0)$-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$- or -$N(R^0)$CO-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-,

k and m, the same or different from each other, and each is 0, 1, 2, 3 or 4,

R^{4a}: lower alkyl, phenyl, hetero ring, cycloalkyl, lower alkylene-phenyl, lower alkylene-hetero ring, lower alkylene-OH, lower alkenyl, lower alkenylene-phenyl or lower alkenylene-hetero ring,

wherein the hetero rings in R^3 and R^{4a} may be substituted with 1 to 5 of lower alkyl, halogen, -OR^0, -S-lower alkyl, -S(O)-lower alkyl, -SO_2-lower alkyl, lower alkylene-OR^0, -

$N(R^0)_2$, $-CO_2R^0$, $-CON(R^0)_2$, -CN, -CHO, $-SO_2N(R^0)_2$, $-N(R^0)$-SO_2-lower alkyl, $-N(R^0)$-CO-$N(R^0)_2$, $-N(R^0)$-CO_2-lower alkyl, $-N(R^0)$-CO_2-cycloalkyl, -NH-C(=NH)-NH-lower alkyl, -NH-C(=N-CN)-NH-lower alkyl, hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), -lower alkylene-NH-C(=NN)-NH_2, -O-phenyl, -CO-phenyl, $-N(R^0)$-CO-lower alkyl, $-N(R^0)$-CO-lower alkylene-$N(R^0)_2$, -lower alkylene-$N(R^0)$-CO-lower alkylene-$N(R^0)_2$, -CO-$N(R^0)$-lower alkylene-$N(R^0)_2$, -CO-lower alkylene-$N(R^0)_2$, -CO-lower alkylene-CO_2R^0, -lower alkylene-$N(R^0)_2$, -lower alkylene-CO_2R^0, -lower alkylene-CO-$N(R^0)_2$, -lower alkylene-$N(R^0)$-CO-lower alkyl, -lower alkylene-$N(R^0)$-CO_2-lower alkyl, -lower alkylene-$N(R^0)$-SO_2-lower alkyl,-lower alkylene-hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), -lower alkylene-O-lower alkylene-phenyl, =N-O-R^0 or oxo, and phenyl and cycloalkyl may be substituted with 1 to 5 of lower alkyl, OH, O-lower alkyl or $N(R^0)_2$, and

wherein the lower alkylene in R^3, R^4, R^{4a} and X^a may be substituted with 1 to 5 of $-OR^0$, $-CO_2R^0$, $-CON(R^0)_2$, $-N(R^0)_2$, $-N(R^0)COR^0$ or hetero ring, or

R^3 and R^4 may together form *-$N(R^7)$-$(CH_2)_2$-, *-$(CH_2)_2$-$N(R^7)$-, *-CH_2-$N(R^7)$-CH_2-, *-$N(R^7)$-$(CH_2)_3$-, *-$(CH_2)_3$-$N(R^7)$-, *-CH_2-$N(R^7)$-$(CH_2)_2$-, *-$(CH_2)_2$-$N(R^7)$-CH_2-, *-C(O)-$N(R^7)$-$(CH_2)_2$-, *-$(CH_2)_2$-$N(R^7)$-C(O)-, *-$N(R^7)$-CH=CH-, *-CH=CH-$N(R^7)$-, *-N=CH-CH=CH-, *-CH=N-CH=CH-, *-CH=CH-N=CH-, *-CH=CH-CH=N-, *-N=CH-CH=N-, *-CH=N-N=CH-, *-$N(R^7)$-N=CH-, *-CH=N-$N(R^7)$-, *-O-CH_2-O-, *-O-$(CH_2)_2$-O-, *-O-$(CH_2)_3$-O-, *-O-$(CH_2)_2$-$N(R^7)$-, *-$(CH_2)_2$-C(O)-, *-CH=CH-C(O)-O- or *-N=C(CF_3)-NH-,

wherein * indicates bonding to the position shown by R^3,

R^7: -H, -lower alkyl or –CO-lower alkyl,

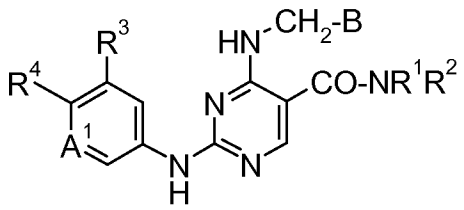
B: ~~H, lower alkenyl, lower alkynyl, lower alkyl substituted with halogen, CN, S-lower alkyl, aryl which may have a substituent(s),~~ cycloalkyl which may have a substituent(s) ~~or hetero ring which may have a substituent(s)~~,

Y: single bond~~; or lower alkylene which may be substituted with 1 to 5 groups selected from halogen, OH, O-lower alkyl, $-NH_2$, -NH-lower alkyl and -N(lower alkyl)$_2$~~, and

R^1 and R^2: the same or different from each other, and each represents H, lower alkyl or O-lower alkyl which may have a substituent(s)).

2. (canceled).

3. (currently amended) A compound~~diaminopyrimidinecarboxamide derivative~~ represented by a formula (Ia) or a salt thereof,



(Ia)

wherein~~(symbols in the formula have the following meanings:~~

A^1: CR^5 or N,

R^5: -H, -lower alkyl, -O-lower alkyl or –halogen,

R^3: -R^0, –lower alkyl substituted with halogen, -halogen,

-OR^0, -S-lower alkyl, -CO-lower alkyl, -CO_2-lower alkyl,

-lower alkylene-OH, -saturated hetero ring, -X^b-heteroaryl, -X^b-saturated hetero ring, -X^b-heteroaryl, -lower alkylene-$N(R^0)_2$, -SO_2-$N(R^0)$-lower alkyl or –lower alkylene-$N(R^0)$-CO_2-lower alkylene-phenyl,

X^b: -lower alkylene-, -O-lower alkylene-, -S-lower alkylene-, -SO-lower alkylene-, -SO_2-lower alkylene-, -$N(R^0)$-lower alkylene- or -lower alkylene-CO-,

R^0: the same or different from one another, and each represents H or a lower alkyl,

R^4: -X^a-saturated hetero ring, -lower alkylene-saturated hetero ring or –lower alkenylene-saturated hetero ring,

X^a: single bond, -O-, -CO-, -S-, -SO_2-, -$N(R^0)$-, -$N(R^0)CO$-, -$N(R^0)SO_2$-, -lower alkylene-O-, -lower alkylene-$N(R^0)$-, -lower alkylene-$N(R^0)CO$- or -lower alkylene-$N(R^0)SO_2$-, -lower alkylene-$N(R^0)CO_2$-, -$N(CO\text{-}R^0)$-, -$N(SO_2$-lower alkyl)-, -$CON(R^0)$-, -lower alkylene-O-CO-, -lower alkenylene-CO-, -lower alkenylene-$CON(R^0)$-, -lower alkenylene-CO_2-, -O-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-, -$N(R^0)$-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-, -CO-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-, -$CON(R^0)$-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$- or -$N(R^0)CO$-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-,

k and m: the same or different from each other, and each is 0, 1, 2, 3 or 4,

wherein the saturated hetero rings in R^3 and ~~R^4~~$\underline{R^4}$ may be substituted with 1 to 5 of lower alkyl, halogen, -OR^0, -S-lower alkyl, -S(O)-lower alkyl, -SO_2-lower alkyl, lower alkylene-OR^0, -$N(R^0)_2$, -CO_2R^0, -$CON(R^0)_2$, -CN, -CHO, -$SO_2N(R^0)_2$, -$N(R^0)$-SO_2-lower alkyl, -$N(R^0)$-CO-$N(R^0)_2$, -$N(R^0)$-CO_2-lower alkyl, -$N(R^0)$-CO_2-cycloalkyl, -NH-C(=NH)-NH-lower alkyl, -NH-C(=N-CN)-NH-lower alkyl, saturated hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), heteroaryl, -lower alkylene-NH-C(=NN)-NH_2, -O-phenyl, -CO-phenyl, -$N(R^0)$-CO-lower alkyl, -$N(R^0)$-CO-lower alkylene-$N(R^0)_2$, -lower alkylene-$N(R^0)$-CO-lower alkylene-$N(R^0)_2$, -CO-$N(R^0)$-lower alkylene-$N(R^0)_2$, -

CO-lower alkylene-$N(R^0)_2$, -CO-lower alkylene-CO_2R^0, -lower alkylene-$N(R^0)_2$, -lower alkylene-CO_2R^0, -lower alkylene-CO-$N(R^0)_2$, -lower alkylene-$N(R^0)$-CO-lower alkyl, -lower alkylene-$N(R^0)$-CO_2-lower alkyl, -lower alkylene-$N(R^0)$-SO_2-lower alkyl, -lower alkylene-hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH),
-lower alkylene-O-lower alkylene-phenyl, =N-O-R^0 or oxo, and phenyl and cycloalkyl may be substituted with 1 to 5 of lower alkyl, OH, O-lower alkyl or $N(R^0)_2$, and

wherein the lower alkylene in R^3, R^4 and X^a may be substituted with 1 to 5 of -OR^0, -CO_2R^0, -$CON(R^0)_2$, -$N(R^0)_2$, -$N(R^0)COR^0$ or hetero ring, or

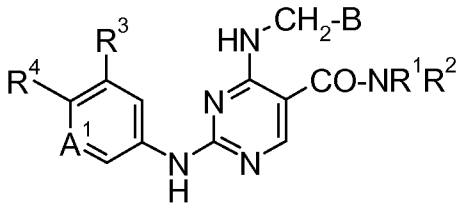
R^3 and R^4 may together form *-$N(R^7)$-$(CH_2)_2$-, *-$(CH_2)_2$-$N(R^7)$-, *-CH_2-$N(R^7)$-CH_2-, *-$N(R^7)$-$(CH_2)_3$-, *-$(CH_2)_3$-$N(R^7)$-, *-CH_2-$N(R^7)$-$(CH_2)_2$-, *-$(CH_2)_2$-$N(R^7)$-CH_2-, *-C(O)-$N(R^7)$-$(CH_2)_2$-, *-$(CH_2)_2$-$N(R^7)$-C(O)-, *-$N(R^7)$-CH=CH-, *-CH=CH-$N(R^7)$-, *-N=CH-CH=CH-, *-CH=N-CH=CH-, *-CH=CH-N=CH-, *-CH=CH-CH=N-, *-N=CH-CH=N-, *-CH=N-N=CH-, *-$N(R^7)$-N=CH-, *-CH=N-$N(R^7)$-, *-O-CH_2-O-, *-O-$(CH_2)_2$-O-, *-O-$(CH_2)_3$-O-, *-O-$(CH_2)_2$-$N(R^7)$-, *-$(CH_2)_2$-C(O)-, *-CH=CH-C(O)-O- or *-N=$C(CF_3)$-NH-, wherein * indicates bonding to the position shown by R^3,

R^7: -H, -lower alkyl or –CO-lower alkyl,

B: aryl which may have a substituent(s) or heteroaryl which may have a substituent(s), and

R^1 and R^2: the same or different from each other, and each represents H, lower alkyl or O-lower alkyl which may have a substituent(s)~~)~~.

4. (currently amended) A compound~~diaminopyrimidinecarboxamide derivative~~ represented by a formula (Ib) or a salt thereof,



(Ib)

wherein~~(symbols in the formula have the following meanings:~~

A^1: CR^5 or N,

R^5: -H, -lower alkyl, -O-lower alkyl or –halogen,

R^3: -saturated hetero ring or $–X^b$-saturated hetero ring,

X^b: -lower alkylene-, -O-, $–N(R^0)$-, -O-lower alkylene-, -S-lower alkylene-, -SO-lower alkylene-, $-SO_2$-lower alkylene-, $–N(R^0)$-lower alkylene- or –lower alkylene-CO-,

R^0: the same or different from one another, and each represents H or a lower alkyl,

R^4: -H, –lower alkyl substituted with halogen, -OH, -NH-CHO, $-CON(R^0)_2$, –lower alkylene substituted with halogen-OH, -lower alkylene-NH_2, -lower alkylene-$NHCONH_2$, -lower alkylene-CO_2H, -lower alkylene-CO_2-lower alkyl, -lower alkylene-CN, –CH(lower alkylene-$OH)_2$ or $–X^a$-R^{4a},

X^a: single bond, -O-, -CO-, -S-, $-SO_2$-, $-N(R^0)$-, $-N(R^0)CO$-, $-N(R^0)SO_2$-, -lower alkylene-O-, -lower alkylene-$N(R^0)$-, -lower alkylene-$N(R^0)CO$- or -lower alkylene-$N(R^0)SO_2$-, -lower alkylene-$N(R^0)CO_2$-, $-N(CO-R^0)$-, $-N(SO_2$-lower alkyl)-, $-CON(R^0)$-, -lower alkylene-O-CO-, -lower alkenylene-CO-, -lower alkenylene-$CON(R^0)$-, -lower alkenylene-CO_2-, $-O-(CH_2)_k$-

cycloalkylene-$(CH_2)_m$-, -$N(R^0)$-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-, -CO-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-, -$CON(R^0)$-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$- or -$N(R^0)$CO-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-,

k and m: the same or different from each other, and each is 0, 1, 2, 3 or 4,

R^{4a}: lower alkyl, phenyl, heteroaryl, cycloalkyl, lower alkylene-phenyl, lower alkylene-heteroaryl, lower alkylene-OH, lower alkenyl, lower alkenylene-phenyl or lower alkenylene-heteroaryl,

wherein the saturated hetero ring and heteroaryl in R^3 and R^{4a} may be substituted with 1 to 5 of lower alkyl, halogen, -OR^0, -S-lower alkyl, -S(O)-lower alkyl, -SO_2-lower alkyl, lower alkylene-OR^0, -$N(R^0)_2$, -CO_2R^0, -$CON(R^0)_2$, -CN, -CHO, -$SO_2N(R^0)_2$, -$N(R^0)$-SO_2-lower alkyl, -$N(R^0)$-CO-$N(R^0)_2$, -$N(R^0)$-CO_2-lower alkyl, -$N(R^0)$-CO_2-cycloalkyl, -NH-C(=NH)-NH-lower alkyl, -NH-C(=N-CN)-NH-lower alkyl, hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), -lower alkylene-NH-C(=NN)-NH_2, -O-phenyl, -CO-phenyl, -$N(R^0)$-CO-lower alkyl, -$N(R^0)$-CO-lower alkylene-$N(R^0)_2$, -lower alkylene-$N(R^0)$-CO-lower alkylene-$N(R^0)_2$, -CO-$N(R^0)$-lower alkylene-$N(R^0)_2$, -CO-lower alkylene-$N(R^0)_2$, -CO-lower alkylene-CO_2R^0, -lower alkylene-$N(R^0)_2$, -lower alkylene-CO_2R^0, -lower alkylene-CO-$N(R^0)_2$, -lower alkylene-$N(R^0)$-CO-lower alkyl, -lower alkylene-$N(R^0)$-CO_2-lower alkyl, -lower alkylene-$N(R^0)$-SO_2-lower alkyl, -lower alkylene-hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), -lower alkylene-O-lower alkylene-phenyl, =N-O-R^0 or oxo, and phenyl and cycloalkyl may be substituted with 1 to 5 of lower alkyl, OH, O-lower alkyl or $N(R^0)_2$, or

the lower alkylene in R^3, R^4, R^{4a} and X^a may be substituted with 1 to 5 of -OR^0, -CO_2R^0, -$CON(R^0)_2$, -$N(R^0)_2$, -$N(R^0)COR^0$ or hetero ring, or

R^3 and R^4 may together form *-N(R^7)-$(CH_2)_2$-, *-$(CH_2)_2$-N(R^7)-, *-CH_2-N(R^7)-CH_2-, *-N(R^7)-$(CH_2)_3$-, *-$(CH_2)_3$-N(R^7)-, *-CH_2-N(R^7)-$(CH_2)_2$-, *-$(CH_2)_2$-N(R^7)-CH_2-, *-C(O)-N(R^7)-$(CH_2)_2$-, *-$(CH_2)_2$-N(R^7)-C(O)-, *-N(R^7)-CH=CH-, *-CH=CH-N(R^7)-, *-N=CH-CH=CH-, *-CH=N-CH=CH-, *-CH=CH-N=CH-, *-CH=CH-CH=N-, *-N=CH-CH=N-, *-CH=N-N=CH-, *-N(R^7)-N=CH-, *-CH=N-N(R^7)-, *-O-CH_2-O-, *-O-$(CH_2)_2$-O-, *-O-$(CH_2)_3$-O-, *-O-$(CH_2)_2$-N(R^7)-, *-$(CH_2)_2$-C(O)-, *-CH=CH-C(O)-O- or *-N=C(CF_3)-NH-, wherein * indicates bonding to the position shown by R^3,

R^7: -H, -lower alkyl or –CO-lower alkyl,

B: aryl which may have a substituent(s) or heteroaryl which may have a substituent(s), and

R^1 and R^2: the same or different from each other, and each represents H, lower alkyl or O-lower alkyl which may have a substituent(s)~~)~~.

5. (canceled)

6. (currently amended) A compound~~diaminopyrimidinecarboxamide~~ selected from the group consisting of 4-benzylamino-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide, 2-[(4-morpholin-4-ylphenyl)amino]-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 4-[(2,5-difluorobenzyl)amino]-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide, 4-[(2,6-difluorobenzyl)amino]-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide, 4-[(2-methoxybenzyl)amino]-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide, 4-[(2-fluoro-6-methoxybenzyl)amino]-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide, 2-({4-[(1-methylpiperidin-3-yl)oxy]phenyl}amino)-

4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 2-{[4-(1-azabicyclo[2.2.2]oct-3-yloxy)phenyl]amino}-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 2-[(4-methyl-3,4-dihydro-2H-1,4-benzoxazin-7-yl)amino]-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 2-({4-[4-(2-amino-2-oxoethyl)piperazin-1-yl]phenyl}amino)-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 2-{[4-(2-morpholin-4-ylethoxy)phenyl]amino}-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 2-{[4-(β-D-glucopyranosyloxy)phenyl]amino}-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 4-benzylamino-2-{[2-(3-chloro-4-hydroxyphenyl)ethyl]amino}pyrimidine-5-carboxamide, 4-benzylamino-2-{[2-(3,5-dichloro-4-hydroxyphenyl)ethyl]amino}pyrimidine-5-carboxamide, 2-[(4-morpholin-4-ylphenyl)amino]-4-[(2-thienylmethyl)amino]pyrimidine-5-carboxamide, 4-{[(3-chloro-2-thienyl)methyl]amino}-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide and 2-{[3-(2-morpholin-4-ylethyl)phenyl]amino}-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide or salts thereof.

7. (currently amended) A ~~pharmaceutical~~ composition comprising a compound of any one of claims 1, 3 or 4,~~which comprises the diaminopyrimidinecarboxamide derivative~~ or a salt thereof, ~~described in claims 3 to 6~~ and a pharmaceutically acceptable carrier.

8 (canceled)

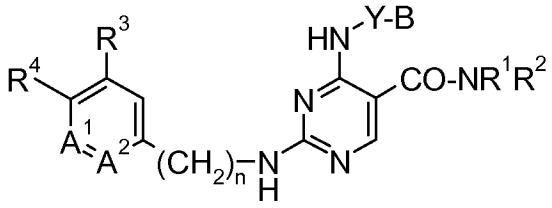
9. (currently amended) ~~The composition described in claim 8, which is a preventive or therapeutic agent for asthma~~A method for treating asthma comprising administering an

effective amount of a compound or a salt thereof, according to any one of claims 1, 3 or 4, to the subject, wherein the subject is a mammal.

10. (currently amended) ~~The composition described in claim 8, which is a preventive or therapeutic agent for a chronic obstructive pulmonary disease~~A method for treating a chronic obstructive pulmonary disease (COPD) comprising administering an effective amount of a compound or a salt thereof, according to any one of claims 1, 3 or 4, to the subject, wherein the subject is a mammal.

Claims 11-12 (Canceled)

13. (currently amended) A method for ~~inhibitory activity for~~ inhibiting STAT 6 activation in a subject, which comprises administering an effective amount of a compound~~diaminopyrimidinecarboxamide derivative~~ represented by the following~~general~~ formula (I) ~~described in claim 1~~,



(I)

wherein

A^1: CR^5 or N,

R^5: -H, -lower alkyl, -O-lower alkyl or –halogen,

A^2: CR^6 or N,

R^6: -H or –halogen,

R^3: -R^0, –lower alkyl substituted with halogen, -halogen, -OR^0, -S-lower alkyl, -CO-lower alkyl, -CO_2-lower alkyl, -lower alkylene-OH, -hetero ring, -O-hetero ring, -N(R^0)-hetero ring, -lower alkylene-hetero ring, -O-lower alkylene-hetero ring, -S-lower alkylene-hetero ring, -SO-lower alkylene-hetero ring, -SO_2-lower alkylene-hetero ring, -N(R^0)-lower alkylene-hetero ring, -lower alkylene-CO-hetero ring, -lower alkylene-N(R^0)$_2$, -SO_2-N(R^0)-lower alkyl or –lower alkylene-N(R^0)-CO_2-lower alkylene-phenyl,

R^0: the same or different from one another, and each is H or a lower alkyl,

n: 0 or 2,

R^4: (i) when n = 2, -R^0, –lower alkyl substituted with halogen, -OR^0, -N(R^0)-CHO, -N(R^0)-CO-lower alkyl or –N(R^0)-SO_2-lower alkyl,

(ii) when n = 0, -H, –lower alkyl substituted with halogen, -OH, -NH-CHO, -CON(R^0)$_2$, -lower alkylene substituted with halogen-OH, -lower alkylene-NH_2, -lower alkylene-$NHCONH_2$, -lower alkylene-CO_2H, -lower alkylene-CO_2-lower alkyl, -lower alkylene-CN, or –CH(lower alkylene-OH)$_2$, or a group represented by a formula -X^a-R^{4a},

X^a: single bond, -O-, -CO-, -S-, -SO_2-, -N(R^0)-,

-N(R^0)CO-, -N(R^0)SO_2-, -lower alkylene-O-, -lower alkylene-N(R^0)-, -lower alkylene-N(R^0)CO-, -lower alkylene-N(R^0)SO_2-, -lower alkylene-N(R^0)CO_2-, -N(CO-R^0)-, -N(SO_2-lower alkyl)-, -CON(R^0)-, -lower alkylene-O-CO-, -lower alkenylene-CO-, -lower alkenylene-

$CON(R^0)$-, -lower alkenylene-CO_2-, -O-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-, -$N(R^0)$-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-, -CO-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-, -$CON(R^0)$-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$- or -$N(R^0)$CO-$(CH_2)_k$-cycloalkylene-$(CH_2)_m$-,

k and m, the same or different from each other, and each is 0, 1, 2, 3 or 4,

R^{4a}: lower alkyl, phenyl, hetero ring, cycloalkyl, lower alkylene-phenyl, lower alkylene-hetero ring, lower alkylene-OH, lower alkenyl, lower alkenylene-phenyl or lower alkenylene-hetero ring,

wherein the hetero rings in R^3 and R^{4a} may be substituted with 1 to 5 of lower alkyl, halogen, -OR^0, -S-lower alkyl, -S(O)-lower alkyl, -SO_2-lower alkyl, lower alkylene-OR^0, -$N(R^0)_2$, -CO_2R^0, -$CON(R^0)_2$, -CN, -CHO, -$SO_2N(R^0)_2$, -$N(R^0)$-SO_2-lower alkyl, -$N(R^0)$-CO-$N(R^0)_2$, -$N(R^0)$-CO_2-lower alkyl, -$N(R^0)$-CO_2-cycloalkyl, -NH-C(=NH)-NH-lower alkyl, -NH-C(=N-CN)-NH-lower alkyl, hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), -lower alkylene-NH-C(=NN)-NH_2, -O-phenyl, -CO-phenyl, -$N(R^0)$-CO-lower alkyl, -$N(R^0)$-CO-lower alkylene-$N(R^0)_2$, -lower alkylene-$N(R^0)$-CO-lower alkylene-$N(R^0)_2$, -CO-$N(R^0)$-lower alkylene-$N(R^0)_2$, -CO-lower alkylene-$N(R^0)_2$, -CO-lower alkylene-CO_2R^0, -lower alkylene-$N(R^0)_2$, -lower alkylene-CO_2R^0, -lower alkylene-CO-$N(R^0)_2$, -lower alkylene-$N(R^0)$-CO-lower alkyl, -lower alkylene-$N(R^0)$-CO_2-lower alkyl, -lower alkylene-$N(R^0)$-SO_2-lower alkyl,-lower alkylene-hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), -lower alkylene-O-lower alkylene-phenyl, =N-O-R^0 or oxo, and phenyl and cycloalkyl may be substituted with 1 to 5 of lower alkyl, OH, O-lower alkyl or $N(R^0)_2$, and

wherein the lower alkylene in R^3, R^4, R^{4a} and X^a may be substituted with 1 to 5 of $-OR^0$, $-CO_2R^0$, $-CON(R^0)_2$, $-N(R^0)_2$, $-N(R^0)COR^0$ or hetero ring, or

R^3 and R^4 may together form *-$N(R^7)$-$(CH_2)_2$-, *-$(CH_2)_2$-$N(R^7)$-, *-CH_2-$N(R^7)$-CH_2-, *-$N(R^7)$-$(CH_2)_3$-, *-$(CH_2)_3$-$N(R^7)$-, *-CH_2-$N(R^7)$-$(CH_2)_2$-, *-$(CH_2)_2$-$N(R^7)$-CH_2-, *-C(O)-$N(R^7)$-$(CH_2)_2$-, *-$(CH_2)_2$-$N(R^7)$-C(O)-, *-$N(R^7)$-CH=CH-, *-CH=CH-$N(R^7)$-, *-N=CH-CH=CH-, *-CH=N-CH=CH-, *-CH=CH-N=CH-, *-CH=CH-CH=N-, *-N=CH-CH=N-, *-CH=N-N=CH-, *-$N(R^7)$-N=CH-, *-CH=N-$N(R^7)$-, *-O-CH_2-O-, *-O-$(CH_2)_2$-O-, *-O-$(CH_2)_3$-O-, *-O-$(CH_2)_2$-$N(R^7)$-, *-$(CH_2)_2$-C(O)-, *-CH=CH-C(O)-O- or *-N=C(CF_3)-NH-,

wherein * indicates bonding to the position shown by R^3,

R^7: -H, -lower alkyl or –CO-lower alkyl,

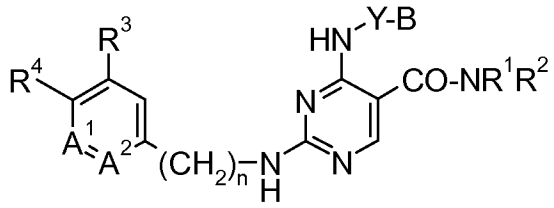
B: H, lower alkenyl, lower alkynyl, lower alkyl substituted with halogen, CN, S-lower alkyl, aryl which may have a substituent(s), cycloalkyl which may have a substituent(s) or hetero ring which may have a substituent(s),

Y: single bond; or lower alkylene which may be substituted with 1 to 5 groups selected from halogen, OH, O-lower alkyl, $-NH_2$, -NH-lower alkyl and –N(lower alkyl)$_2$, and

R^1 and R^2: the same or different from each other, and each represents H, lower alkyl or O-lower alkyl which may have a substituent(s), or a salt thereof, to ~~a mammal~~the subject, wherein the subject is a mammal.

14. (currently amended) A method for ~~inhibitory activity for~~inhibiting Th2 cell differentiation induced by STAT6 activation in a subject, which comprises administering an

effective amount of a compound~~diaminopyrimidinecarboxamide derivative~~ represented by the following~~general~~ formula (I)~~ described in claim 1~~



(I)

wherein

A^1: CR^5 or N,

R^5: -H, -lower alkyl, -O-lower alkyl or –halogen,

A^2: CR^6 or N,

R^6: -H or –halogen,

R^3: -R^0, –lower alkyl substituted with halogen, -halogen, -OR^0, -S-lower alkyl, -CO-lower alkyl, -CO_2-lower alkyl, -lower alkylene-OH, -hetero ring, -O-hetero ring, -N(R^0)-hetero ring, -lower alkylene-hetero ring, -O-lower alkylene-hetero ring, -S-lower alkylene-hetero ring, -SO-lower alkylene-hetero ring, -SO_2-lower alkylene-hetero ring, -N(R^0)-lower alkylene-hetero ring, -lower alkylene-CO-hetero ring, -lower alkylene-N(R^0)$_2$, -SO_2-N(R^0)-lower alkyl or –lower alkylene-N(R^0)-CO_2-lower alkylene-phenyl,

R^0: the same or different from one another, and each is H or a lower alkyl,

n: 0 or 2,

R^4: (i) when n = 2, $-R^0$, –lower alkyl substituted with halogen, $-OR^0$, $-N(R^0)$-CHO, $-N(R^0)$-CO-lower alkyl or $-N(R^0)-SO_2$-lower alkyl,

(ii) when n = 0, -H, –lower alkyl substituted with halogen, -OH, -NH-CHO, $-CON(R^0)_2$, -lower alkylene substituted with halogen-OH, -lower alkylene-NH_2, -lower alkylene-$NHCONH_2$, -lower alkylene-CO_2H, -lower alkylene-CO_2-lower alkyl, -lower alkylene-CN, or –CH(lower alkylene-$OH)_2$, or a group represented by a formula $-X^a-R^{4a}$,

X^a: single bond, -O-, -CO-, -S-, $-SO_2-$, $-N(R^0)-$,

$-N(R^0)CO-$, $-N(R^0)SO_2-$, -lower alkylene-O-, -lower alkylene-$N(R^0)-$, -lower alkylene-$N(R^0)CO-$, -lower alkylene-$N(R^0)SO_2-$, -lower alkylene-$N(R^0)CO_2-$, $-N(CO-R^0)-$, $-N(SO_2$-lower alkyl)-, $-CON(R^0)-$, -lower alkylene-O-CO-, -lower alkenylene-CO-, -lower alkenylene-$CON(R^0)-$, -lower alkenylene-CO_2-, $-O-(CH_2)_k$-cycloalkylene-$(CH_2)_m-$, $-N(R^0)-(CH_2)_k$-cycloalkylene-$(CH_2)_m-$, $-CO-(CH_2)_k$-cycloalkylene-$(CH_2)_m-$, $-CON(R^0)-(CH_2)_k$-cycloalkylene-$(CH_2)_m-$ or $-N(R^0)CO-(CH_2)_k$-cycloalkylene-$(CH_2)_m-$,

k and m, the same or different from each other, and each is 0, 1, 2, 3 or 4,

R^{4a}: lower alkyl, phenyl, hetero ring, cycloalkyl, lower alkylene-phenyl, lower alkylene-hetero ring, lower alkylene-OH, lower alkenyl, lower alkenylene-phenyl or lower alkenylene-hetero ring,

wherein the hetero rings in R^3 and R^{4a} may be substituted with 1 to 5 of lower alkyl, halogen, $-OR^0$, -S-lower alkyl, -S(O)-lower alkyl, $-SO_2$-lower alkyl, lower alkylene-OR^0, $-N(R^0)_2$, $-CO_2R^0$, $-CON(R^0)_2$, -CN, -CHO, $-SO_2N(R^0)_2$, $-N(R^0)-SO_2$-lower alkyl, $-N(R^0)$-CO-$N(R^0)_2$, $-N(R^0)-CO_2$-lower alkyl, $-N(R^0)-CO_2$-cycloalkyl, -NH-C(=NH)-NH-lower alkyl, -NH-

C(=N-CN)-NH-lower alkyl, hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), -lower alkylene-NH-C(=NN)-NH_2, -O-phenyl, -CO-phenyl, -N(R^0)-CO-lower alkyl, -N(R^0)-CO-lower alkylene-N(R^0)$_2$, -lower alkylene-N(R^0)-CO-lower alkylene-N(R^0)$_2$, -CO-N(R^0)-lower alkylene-N(R^0)$_2$, -CO-lower alkylene-N(R^0)$_2$, -CO-lower alkylene-CO_2R^0, -lower alkylene-N(R^0)$_2$, -lower alkylene-CO_2R^0, -lower alkylene-CO-N(R^0)$_2$, -lower alkylene-N(R^0)-CO-lower alkyl, -lower alkylene-N(R^0)-CO_2-lower alkyl, -lower alkylene-N(R^0)-SO_2-lower alkyl,-lower alkylene-hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), -lower alkylene-O-lower alkylene-phenyl, =N-O-R^0 or oxo, and phenyl and cycloalkyl may be substituted with 1 to 5 of lower alkyl, OH, O-lower alkyl or N(R^0)$_2$, and

wherein the lower alkylene in R^3, R^4, R^{4a} and X^a may be substituted with 1 to 5 of -OR^0, -CO_2R^0, -$CON(R^0)_2$, -N(R^0)$_2$, -N(R^0)COR^0 or hetero ring, or

R^3 and R^4 may together form *-N(R^7)-$(CH_2)_2$-, *-$(CH_2)_2$-N(R^7)-, *-CH_2-N(R^7)-CH_2-, *-N(R^7)-$(CH_2)_3$-, *-$(CH_2)_3$-N(R^7)-, *-CH_2-N(R^7)-$(CH_2)_2$-, *-$(CH_2)_2$-N(R^7)-CH_2-, *-C(O)-N(R^7)-$(CH_2)_2$-, *-$(CH_2)_2$-N(R^7)-C(O)-, *-N(R^7)-CH=CH-, *-CH=CH-N(R^7)-, *-N=CH-CH=CH-, *-CH=N-CH=CH-, *-CH=CH-N=CH-, *-CH=CH-CH=N-, *-N=CH-CH=N-, *-CH=N-N=CH-, *-N(R^7)-N=CH-, *-CH=N-N(R^7)-, *-O-CH_2-O-, *-O-$(CH_2)_2$-O-, *-O-$(CH_2)_3$-O-, *-O-$(CH_2)_2$-N(R^7)-, *-$(CH_2)_2$-C(O)-, *-CH=CH-C(O)-O- or *-N=C(CF_3)-NH-,

wherein * indicates bonding to the position shown by R^3,

R^7: -H, -lower alkyl or –CO-lower alkyl,

B: H, lower alkenyl, lower alkynyl, lower alkyl substituted with halogen, CN, S-lower alkyl, aryl which may have a substituent(s), cycloalkyl which may have a substituent(s) or hetero ring which may have a substituent(s),

Y: single bond; or lower alkylene which may be substituted with 1 to 5 groups selected from halogen, OH, O-lower alkyl, -NH_2, -NH-lower alkyl and –N(lower alkyl)$_2$, and

R^1 and R^2: the same or different from each other, and each represents H, lower alkyl or O-lower alkyl which may have a substituent(s),

or a salt thereof, to ~~a mammal~~the subject, wherein the subject is a mammal.

15. (New) The compound of claim 1 wherein B is a cycloalkyl.

16. (New) The compound of claim 15 wherein B is cyclopropyl or cyclobutyl which may have a substituent(s).

17. (New) The compound of claim 16 wherein B is cyclopropyl or cyclobutyl.

18. (New) The compound of claim 15 wherein R^1 and R^2 are both H.

19. (New) The compound of claim 15 wherein A^1 is CR^5 and A^2 is CR^6, and wherein R^5 and R^6 are both H.

20. (New) The compound of claim 15 wherein R^3 is $-R^0$, -halogen or -hetero ring, and wherein R^0 is H or lower alkyl.

21. (New) The compound of claim 20 wherein R^3 is -hetero ring substituted with 1 to 5 of lower alkyl, -OH, $-SO_2$-lower alkyl, lower alkylene-OR^0, $-CO_2R^0$, $-CON(R^0)_2$ or $-N(R^0)$-CO-lower alkyl.

22. (New) The compound of claim 15 wherein n is 0.

23. (New) The compound of claim 22 wherein R^4 is $-X^a$-R^{4a}, and wherein X^a is a single bond, -CO-, $-SO_2$-, $-N(R^0)CO$- or $-N(R^0)SO_2$-, and R^{4a} is lower alkyl, phenyl, hetero ring, cycloalkyl or lower alkylene-OH.

24. (New) The compound of claim 23 wherein R^{4a} is hetero ring substituted with 1 to 5 of lower alkyl, -OH, $-SO_2$-lower alkyl, lower alkylene-OR^0, $-CO_2R^0$, $-CON(R^0)_2$ or $-N(R^0)$-CO-lower alkyl.

25. (New) The compound of claim 15 wherein R^3 and R^4 taken together form *-$N(R^7)$-CH=CH-, *-$N(R^7)$-N=CH- or *-CH=N-$N(R^7)$-, wherein * indicates bonding to the position shown by R^3.